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TCS-11524-62-KH

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16 March 1962

MEMORANDUM FOR: Chief, TR&DS

SUBJECT: Requirement for Technical Consultant in TID

1. Introduction

On 21 October 1960 a request was made that a proposal be negotiated with [REDACTED] for the consultant services of [REDACTED]. The proposal was procured and all that was necessary was to await [REDACTED] TOP SECRET clearance. On 13 February 1962 [REDACTED] was granted TOP SECRET clearance as noted in a memorandum from Personnel Security Division/OS to the Security Staff/OL. So much time has elapsed since the original request for [REDACTED] services it seemed appropriate to submit a new staff study.

2. Statement of the Problem

To adequately keep abreast of current production and at the same time conduct advanced work on new systems the Technical Intelligence Division, in particular the Technical Analysis Branch and the Computer Branch, needs assistance in photogrammetric analysis of new systems. The systems referred to are the A, O, E, and problems with us on KH-4.

3. Facts

a. In general the type of analyses that TID/TAB urgently requires is as follows:

- (1) Mathematical derivation of photogrammetric equations.
- (2) Proofs and evaluation of photogrammetric equations.
- (3) Assisting computer analysis and programs as the need arises.
- (4) Training contract computer programmers and systems analysts in the science of photogrammetry.

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b. More specifically, the following photogrammetric analysis for each photographic collection system is necessary:

- (1) Space orientation of sensor system.
- (2) Transformation equations.
- (3) Space resection.
- (4) Stereoscopic exploitation analysis.
- (5) Limited control extension.
- (6) Image motion compensation.
- (7) Error analysis.

#### 4. Discussion of the Facts

To date a limited amount of analysis on future collection systems has been accomplished because the personnel assigned to the various future systems have not been able to adequately devote their time to such study. The shortage of personnel and the magnitudes of substantive requirements in support of NPIC projects has resulted in limited application to the study of future collection systems. For adequate mensuration and computer support each collection system must be analysed and understood. To be ready with proper support at the time of exploitation, detailed study and analysis must be done well in advance.

#### 5. Recommendations

a. It is recommended that negotiations for a proposal be renewed with [REDACTED] for the services of [REDACTED] as a consultant to TID. To start with the 'on board' employment of [REDACTED] three full (8-hour) days a week would be satisfactory, with the option to change to an 'on call' basis at a later date.

b. For clearances it is felt that [REDACTED] must have T, KH, SI, C, and [REDACTED] for his basic work needs. Additional

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system clearances will be requested as it is felt they are required. For [REDACTED] to be of the greatest assistance to TID it is felt that he should receive [REDACTED] clearances and these will be requested at the appropriate time.

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Chief, Technical Intelligence Division

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NPIC/TID: [REDACTED] mcf:3516 (16 March 1962)

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